## Amendments to the Claims

The following listing of claims will replace all prior versions, and listings, of claims in the application.

## Listing of Claims

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1 1(Original). A system, comprising:

a graph-decoder based speech recognition mechanism for recognizing a word sequence, from input speech data, based on a language model using a graph decoder; and

a keyword based speech recognition mechanism for recognizing, when the graph-decoder based speech recognition mechanism fails, the word sequence based on at least one keyword detected from the input speech data.

1 2(Origina

2(Original). The system according to claim 1, wherein the graph decoder based

speech recognition mechanism comprises:

a graph decoder for recognizing the word sequence from the input speech data based on at least one acoustic feature to generate a recognition result, the recognizing being performed according to at least one acoustic model and a language model; and

a recognition acceptance mechanism for determining whether to accept the recognition result generated by the graph decoder based speech recognition mechanism or to activate, when the recognition result from the graph decoder based

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9.	recognition mechan	ism is not accepted, the keyword based speech recognit	ion
10	mechanism.		
4			•
1	3(Original)	The system according to claim 2, further comprising an a	coustic
1	,	extract the at least one acoustic feature from the input s	
2	feature extractor to	extract the at least one acoustic reature from the input of	poodri dalla.
1			
1	4(Original).	The system according to claim 2, wherein the keyword ba	asea speecn
2	recognition mechai	hism comprises:	
3	a keyword s	potting mechanism, activated by the recognition accepta	nce
4	mechanism, for de	ecting, using the at least one acoustic models, the at lea	st one
5	keyword from the i	nput speech data based on a keyword list; and	
6	a keyword b	ased recognition mechanism for recognizing the word se	equence
7	using the at least o	ne keyword, detected by the keyword spotting mechanis	m, based on
8	the language mod	el.	
1			•
ĺ	5(Original).	A keyword based speech recognition mechanism, comp	rising:
2	a keyword s	potting mechanism for detecting, using at least one acou	ıstic models,
3	at least one keywo	rd from input speech data based on a keyword list; and	
4	a keyword t	ased recognition mechanism for recognizing a word seq	uence using
5	the at least one ke	yword, detected by the keyword spotting mechanism, ba	sed on a
6	language model.	·	
1			
1	6(Original).	The system according to claim 5, further comprising:	
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2	an index mechanism for establishing indices to word sequences that are allowed
3	by the language model based on the keyword list, the indices being used by the
4	keyword based recognition mechanism to recognize the word sequence.
1	
1	7(Original). A method, comprising:
2	recognizing, by a graph decoder, a word sequence from input speech data based
3	on at least one acoustic features, the recognizing being performed using at least one
4	acoustic model and a language model;
5	determining, by a recognition acceptance mechanism, whether to accept the
6	word sequence or to activate a keyword based speech recognition mechanism; and
7	performing, by a keyword based speech recognition mechanism when it is
8	activated, keyword based speech recognition from the input speech data.
1	
1	8(Original). The method according to claim 7, wherein the performing comprises:
2	detecting, by a keyword spotting mechanism, at least one keyword, according to
3	a keyword list, from the input speech data based on the at least one acoustic model;
4	and
5	recognizing, by a keyword based recognition mechanism, the word sequence
6	using the at least one keyword, detected by the detecting, based on the language
7 1	model.
	9(Original). The method according to claim 7, further comprising:
1	receiving the input speech data; and

3.	extracting, by an acoustic feature extractor, the at least one acoustic feature from
4	the input speech data.
1	
1	10(Original). A method for keyword based speech recognition, comprising:
2	detecting, by a keyword spotting mechanism, at least one keyword, according to
<b>3</b> °	a keyword list, from input speech data based on at least one acoustic model; and
4	recognizing, by a keyword based recognition mechanism, a word sequence using
5	the at least one keyword, detected by the detecting, based on a language model.
1	
1	11(Original). The method according to claim 10, further comprising:
2	deriving at least one word sequence from the language model to generate a
3	language associated with the language model; and
4	establishing indices to the at least one word sequence based on each word in the
5	keyword list prior to the detecting.
1	•
1	12(Original). The method according to claim 10, wherein the recognizing
2	comprises:
3	identifying zero or more candidate word sequences, through the indices between
4	each keyword in the keyword list to the at least one word sequence, that contain at least
5	some of the at least one keyword; and
6	determining the word sequence from the zero or more candidate word
7	sequences that match the at least one keyword.
1	

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1,	13(Original). A computer-readable medium encoded with a program, the
2	program, when executed, causing:
3.	recognizing, by a graph decoder, a word sequence from input speech data based
4	on at least one acoustic features, the recognizing being performed using at least one
5	acoustic model and a language model;
6	determining, by a recognition acceptance mechanism, whether to accept the
7	word sequence or to activate a keyword based speech recognition mechanism; and
8	performing, by a keyword based speech recognition mechanism when it is
9	activated, keyword based speech recognition from the input speech data.
1	
1	14(Previously Presented). The medium according to claim 13, wherein the
2	performing comprises:
,3	detecting, by a keyword spotting mechanism, at least one keyword, according to
4	a keyword list, from the input speech data based on the at least one acoustic model;
5	and
6	recognizing, by a keyword based recognition mechanism, the word sequence
7	using the at least one keyword, detected by the detecting, based on the constrained
8	language model.
1	
1	15(Original). The medium according to claim 13, the program, when executed,
2	further causing:
3	receiving the input speech data; and

4	extracting, by an acoustic feature extractor, the at least one acoustic feature from
5	the input speech data.
1	
1	16(Previously Presented). A computer-readable medium encoded with a program
2	for keyword based speech recognition, the program, when executed, causing:
3	detecting, by a keyword spotting mechanism, at least one keyword, according to
4	a keyword list, from input speech data based on at least one acoustic model; and
5	recognizing, by a keyword based recognition mechanism, a word sequence using
6	the at least one keyword, detected by the detecting, based on a constrained language
7	model.
1	
1	17(Original). The medium according to claim 16, the program, when executed,
2	further causing:
3	deriving at least one word sequence from the language model to generate a
4	language associated with the language model; and
5	establishing indices to the at least one word sequence based on each word in the
6	keyword list prior to the detecting.
1	
1	18(Original). The medium according to claim 17, wherein the recognizing
2	comprises:
3	identifying zero or more candidate word sequences, through the indices between
4	each keyword in the keyword list to the at least one word sequence, that contain at leas
5	some of the at least one keyword; and
:	

- determining the word sequence from the zero or more candidate word 6
- sequences that match the at least one keyword. 7.

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